



TETRA TECH EM INC.

April 10, 2012

Dear RAB Members,

On behalf of the Navy, enclosed please find the December 7, 2011 final RAB meeting minutes for your information and records.

If there are any questions regarding the enclosed minutes, please contact Carolyn Hunter at (916) 853-4556 or Carolyn.hunter@tetratech.com.

Sincerely,

Carolyn Hunter
Community Relations Specialist
Tetra Tech EMI

FINAL
MEETING MINUTES
RESTORATION ADVISORY BOARD
INLAND AREA ENVIRONMENTAL RESTORATION PROGRAM
FORMER NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD
CONCORD, CALIFORNIA
DECEMBER 7, 2011

These minutes reflect general issues raised, agreements reached, and action items identified at the Restoration Advisory Board (RAB) meeting for the Inland Area Environmental Restoration (ER) Program at the Former Naval Weapons Station Seal Beach Detachment Concord (NAVWPNSTA Concord), California. The meeting was held from 6:30 p.m. to 8:20 p.m. on December 7, 2011, at the Clyde Clubhouse in Clyde, California. Agreements and action items are described by topic under [Sections I](#) through [IX](#) and are summarized in [Section X](#). A list of participants and their affiliations is included as [Attachment A](#), and the meeting agenda is included as [Attachment B](#). Handouts from the meeting also are included as attachments to these minutes.

I. WELCOME, INTRODUCTIONS, PUBLIC COMMENT, AND AGENDA APPROVAL

Welcome and Introductions

The RAB Community Co-Chair, Mary Lou Williams, called the RAB meeting to order at 6:30 p.m. and initiated introductions for all attendees. Ms. Williams took a moment to remind the group that the date is Pearl Harbor Day and shared her gratitude for those that have served or currently serve the country.

Scott Anderson (Navy Co-Chair) asked for any changes or additions to the agenda; there were none.

Public Comments

Mr. Anderson opened the floor to public comments. There were none.

RAB Meeting Minutes Approval

Ms. Williams confirmed that with five community RAB members present there was a quorum. Mr. Anderson asked for approval of the RAB meeting minutes for August 3, 2011. RAB members did not have comments at this time. Mr. Anderson said he would accept e-mailed comments on the minutes over the next 2 weeks; then, they will be finalized.

Action Item

1. RAB members will e-mail Mr. Anderson any comments on the draft August 3, 2011, RAB minutes.

II. ANNOUNCEMENTS

Mr. Anderson thanked everyone who brought food and came early to participate in the pre-meeting holiday potluck. Mr. Anderson reviewed the outstanding action items from the RAB meeting on August 3, 2011. The action items table has been updated.

Mr. Anderson gave an update on the ConocoPhillips Pipeline Release ([Attachment C](#)). During the presentation, Edi Birsan (Concord resident) asked what caused the leak. Alan Friedman (San Francisco Bay Regional Water Quality Control Board [Water Board]) said it was likely corrosion; the pipe is more than 50 years old. Shon Wolf (Clyde resident) asked for clarification that the leak is on the Navy's property, but it is not the Navy's responsibility to take care of it. Mr. Anderson said that statement is correct: it is a ConocoPhillips pipeline and the company is taking full responsibility for the rupture and corresponding contamination. As the property owner, the Navy needs to make sure ConocoPhillips is taking care of the leak properly and is reviewing the cleanup plans.

Mr. Wolf asked if pipeline owners in the area (ConocoPhillips, Shell, and Kinder Morgan) are testing the pipelines for possible leaks. Mr. Friedman said that those companies have been testing the pipelines in the areas where they are doing repair work. Mr. Anderson said that ConocoPhillips contacted the Navy and that the company is planning to install cathodic protection on portions of the pipeline to prevent future corrosion. Mr. Wolf asked if any agency has oversight on these companies with pipeline inspections and installing protection. Mr. Friedman said the Water Board does not have regulatory authority over the pipelines themselves, but only for a spill cleanup. Ms. Williams asked about construction of the pipeline, and Mr. Anderson said it is steel.

Igor Skaredoff (Martinez resident) asked if the spill had caused any human exposure to contaminants. Mr. Anderson said there had been no human exposure. He added that air monitoring was conducted and confirmed no airborne exposure. Cindy Welles (Clyde resident) asked about the location of the leak. Mr. Friedman said it is near Holly Drive and the Concord Pavilion. Mr. Birsan asked about the depth of the pipeline. Mr. Anderson said it is 4 to 6 feet deep. Mr. Skaredoff asked if the Navy can request that ConocoPhillips conduct additional testing and inspections on all of its pipelines in the area. Mr. Anderson said he would ask the Navy department if the Navy can make that request.

Mr. Birsan noted that there has been discussion at the Military Ocean Terminal Concord (MOTCO) RAB meetings (hosted by the Army) about a leak near the Port Chicago Highway that has been going on for 15 years. He noted there are three possible pipeline owners who all indicate someone else is responsible. He asked if there is a way the Navy can talk to the Army and help use this ConocoPhillips leak as an opportunity to ask potentially responsible parties to investigate the leak near Port Chicago Highway. Mr. Anderson said he will communicate with the Army about that issue.

Mr. Birsan asked if he could obtain a copy of the PowerPoint presentation Mr. Anderson presented to share. Mr. Anderson agreed and said it will be e-mailed to him. Ms. Williams asked when ConocoPhillips will be done with the cleanup. Mr. Friedman said he does not know

the date, but some of the cleanup is weather dependent, so will likely try to be done before it is too rainy.

Action Items

2. The Navy will e-mail the ConocoPhillips Oil Spill Update to Mr. Birsan.

Proposed RAB Meeting Schedule

Mr. Anderson noted he had mentioned at the last RAB meeting that Navy Base Realignment and Closure (BRAC) Program Management Office (PMO) is planning to transition all RABs to a quarterly schedule. Mr. Anderson said he is committed to keeping RAB members updated between meetings with e-mail status updates and photos. He noted the Navy would like to implement a quarterly schedule that does not conflict with the Army's RAB schedule. Mr. Skaredoff asked if the Army is also moving to a quarterly schedule. Mr. Anderson said the Army is not, to his knowledge, changing its RAB schedule in any way.

Ms. Williams reiterated her concern that reducing the RAB meeting schedule is not in the best interest of the RAB. She is concerned that it will result in a reduction in community interest and participation in the RAB. Ms. Williams said the RAB has been doing its job by sharing cleanup news with the community and various other groups. She suggested the Navy make efforts to boost RAB membership. Mr. Skaredoff said he is also concerned that RAB membership will drop off. He said sending a RAB application in the mail periodically is a good, but passive, way to recruit members. He suggested a more active plan, such as talking to the county board. Mr. Birsan said finding new RAB members is not a challenge; it is defining the RAB's mission and keeping people coming to the RAB once they join that is a challenge. Mr. Wolf added he feels the RAB is doing its best to participate, but that agencies such as the city and county and the companies with pipelines at the site are not doing their part to report and participate.

Mr. Anderson said he will take the RAB's concerns to his management and get back to the RAB with a plan for the future schedule for RAB meetings. He said the Navy would also be willing to help boost RAB membership if the RAB members have any suggestions for what they would like to do. Ms. Williams suggested Mr. Anderson invite his management to attend a RAB meeting to see how well this RAB works.

III. COMMITTEE REPORTS/ANNOUNCEMENTS

RAB Announcements

Mr. Wolf said he saw all of the railcars being dismantled by the Pittsburg/Antioch freeway, before Loveridge Road. He said it looks like there are about 50 railcars there, the dismantling seems to be clean and efficient, and all of the workers appear to be using safety gear. Mr. Birsan said he had received reports from the community that the traffic light at Willow Pass Road, which is gone now, worked well when the railcars were being moved out of the area. Ms. Welles said she had heard that civilian trucks were using the wrong route and driving through MOTCO. Mr. Anderson indicated that the railcar removal project had been successfully completed.

Navy Update

Mr. Anderson noted there is a thorough update on activities on the Navy RPM update handout, which is included as [Attachment D](#). Because of the full agenda, he encouraged RAB members to review it and contact him with any questions.

IV. SITE 22A PROPOSED PLAN (PP) AND AREA OF POTENTIAL INTEREST (AOPI) INVESTIGATION PRESENTATION

Mr. Anderson introduced Valerie Harris (Navy Remedial Project Manager [RPM]) to give the Site 22A PP and AOPI presentation ([Attachment E](#)). During the review of slide 3, Mr. Skaredoff asked if the Navy is applying residential cleanup standards even though residential use is not part of the city's reuse plan for this area. Ms. Harris confirmed that the statement is correct, and the data collected indicate that levels of contaminants at the site, if present, are within the residential risk management range.

Ms. Harris moved on to the AOPI field work update. Mr. Anderson noted this AOPI was the first stop on the most recent site tour, so the RAB has seen these sites. Ms. Harris said the Navy is still doing biological trapping. Mr. Birsan asked about the purpose of the trapping. Ms. Harris said it is to remove the animals, in this case tiger salamanders, from the work site to limit potential impacts to the species.

Ms. Harris said that some military fuzes were found in a trench in the Guam Way area, so work was stopped immediately. The Navy and its contractors put revised plans in place to safely excavate the area. The field work at this area is temporarily on hold while additional biological trapping is being performed. She noted the trench is 12 feet in depth and more shallow at the sides. Mr. Skaredoff asked how many salamanders the Navy has trapped at the site. Ms. Harris said none have been trapped at Guam Way. This year, seven were trapped at Eagle's Nest and one was trapped at Site 24A. Last year, 19 were trapped at Eagle's Nest.

V. FORMER INLAND BURN (FIB) AREA AND SOLID WASTE MANAGEMENT UNITS (SWMU) PRESENTATION

Dennis Parker (Navy RPM) presented the update ([Attachment F](#)). Mr. Parker said munitions had been found at the site at a depth of 12 feet. Mr. Birsan asked if the site was excavated to a depth of 12 feet across all 15 acres that have been cleared so far. Mr. Parker said no, that the "high anomaly" areas were specific areas of the site, and trenching and excavations in other areas were not and may not be that deep. Mr. Birsan asked how many trucks will be used for the excavation, where they are going, and if the community will be affected by a large number of trucks hauling soil on and off the site. Mr. Parker said the investigation and cleanup are for munitions, and not chemical contamination. As a result, the process is to screen the soil on site, remove munitions, then backfill with the same soil that was excavated. Consequently, there will not be a large soil removal and there should be only a small number of trucks, which should not have any impact on the community.

Mr. Parker said there will be some minor detonations in controlled situations for any live munitions that are found, but the noise impacts will be minimal. These detonations will be conducted in approved areas following strict protocols as to not impact surrounding areas. Mr. Parker noted the rocket motor the field team found, pictured on slide 5, turned out not to be a live munition.

During the SWMU update, Mr. Skaredoff asked about the nature of the breakdown product dichloroethene (DCE) and whether it could naturally degrade if left in place. Mr. Parker said it will degrade to ethane under the right circumstances, but at different rates, depending on the geochemistry of a site. The Navy will use the air sparging and soil vapor extraction (AS/SVE) system to degrade it to the approved cleanup level of 5 micrograms per liter. Mr. Birsan asked if the Navy will collect the chlorine gas resulting from the degradation and Mr. Parker said the Navy will not; however, the air extracted from the system flows through a carbon filter system that removes any air contaminants prior to its discharge.

VI. BIOLOGICAL ACTIVITIES PRESENTATION

Mr. Parker presented the biological activities update ([Attachment F](#)). He noted the Navy is trapping at the same four locations that were trapped last year, and at three additional sites; the locations are noted on slide 3. Mr. Birsan asked what happens to the trapped animals and if they are transported to a breeding pond. Mr. Parker said the animals are handled as little as possible and are simply taken out of the fenced area and placed in burrows that are located in close proximity to the trapping area. Ms. Williams asked about the size of the tiger salamanders. Mr. Parker said the tiger salamander pictured on slide 6 is estimated to be about 8 inches in length.

VII. RADIOLOGICAL SCREENING PROGRAM PRESENTATION

Bryce Bartelma (Navy RPM) gave an update on the radiological program ([Attachment G](#)). He noted the scanner pictured on slide 6 is the same kind the RAB saw in action during the RAB tour earlier this year. It is the 3-Dimensional Indoor Scanning System (DISS), or 3-DISS.

Mr. Bartelma noted a possible detection in the basement of Building IA-21. Ms. Welles asked if that is the area where the Navy previously dug a large pit as part of another investigation. Mr. Bartelma said it is not, but it is close to that area. Mr. Skaredoff asked if the radiological scans had found anything. Mr. Bartelma indicated the elevated reading at IA-21 is the only area where anything had been found; the site is in an area where there is a crack in the basement floor. Wipe samples have ruled it out as a removable source. The next step is for the Navy to break up the concrete in that area and scan it separately to determine whether the source is naturally occurring radon in the soil. Field work is expected to wrap up in December 2011.

VIII. SITE 27 PP PUBLIC MEETING STATUS AND SITE 22 ENDRIN REMOVAL ACTION PRESENTATION

Byron Clamor (Navy RPM) introduced himself to the RAB members; he has been involved in the work at Site 27 since 2010. He added he will also be providing support to Ms. Harris on Site 22. Mr. Clamor presented the Sites 27 and 22 update ([Attachment H](#)). During the review of

Slide 1, Mr. Clamor explained that Aroclor-1248 and Aroclor-1254, both listed as chemicals of concern at Site 27, are types of polychlorinated biphenyls (PCB).

Mr. Clamor said the PP for Site 27 will be issued in early January 2012. The public meeting will be on January 18, 2012, and will be held at the RAB meeting location, the Clyde Clubhouse. He encouraged RAB members to attend.

During the update on Site 22, Mr. Clamor noted that the Navy was planning on conducting a NTCRA to address a small area of endrin contamination at the site. Mr. Birsan asked if endrin is an herbicide, and Mr. Clamor confirmed that it is. Mr. Birsan noted the endrin detections seem to be “in the middle of nowhere.” He said if it was used as an herbicide, he would expect it to be present in more locations.

Ms. Harris said the Navy does not believe the endrin was used at the site as an herbicide. The detections are near the railway tracks, so it is believed it was being hauled and is a discrete spill. Mr. Birsan asked how the endrin was found, and whether there was documentation that there was an endrin spill near the railway tracks. Ms. Harris said it was found during a standard chemical contamination investigation at the site; it is commonly included in typical pesticide analyses. The endrin poses an ecological risk, but not a human health risk. Ms. Williams asked if endrin is still in regular use as an herbicide. Ms. Harris said she is not sure, but she does not believe it is.

Mr. Skaredoff asked if the soil that is removed will be hauled off the site, since it is a small site and a small removal action. Mr. Clamor said that the statement is correct. Mr. Anderson said this area is a smaller part of a larger site, and this NTCRA will be documented in the FS and PP for this site. Mr. Skaredoff commended the Navy for its plans with this NTCRA, noting this approach seems time- and cost-effective.

IX. SITE 29 TREATABILITY STUDY (TS) AND FS PRESENTATION

Kristina Madali (Navy Lead RPM) presented the update on Site 29 ([Attachment I](#)). Ms. Madali explained that trichloroethene (TCE) and tetrachloroethene (PCE) are the contaminants of concern at the site. The Navy is doing a pilot study to identify the best cleanup method and study how a remedy might work at this site. She noted the site has many challenges associated with the SVE system. There is no electrical power at the site, so the Navy is using a solar-power SVE system. She also noted the blower for the system went out due to a faulty part, but the Navy has been able to get it running again. Ms. Madali noted that there have been security concerns at NAVWPNSTA Concord. The Navy has installed a motion-sensor security camera that is remotely monitored at the Site 29 SVE station.

Ms. Madali said another challenge with the treatability study (TS) at this site is that there are not naturally favorable conditions for in-situ bioremediation (ISB) because the groundwater is aerobic. These conditions can be altered/enhanced through the TS process, and the Navy is working with its contractors to be creative in solving the issues at the site and hopes the pilot study will get this site closer to closure.

Mr. Birsan asked if the Navy has seen any salamanders at this site, and Ms. Madali said the Navy

has not. Mr. Skaredoff asked if the Navy is using a biological process at Site 29, and if the Navy is injecting “bugs” into the groundwater. Ms. Madali confirmed that the statement is correct. The Navy is injecting microorganisms and trying to achieve the right oxygen levels. She will give a thorough presentation about the pilot study at a future meeting if the RAB is interested. Mr. Skaredoff asked if the groundwater migrates in this area. He asked if the contamination will spread if the pilot study is not successful. Ms. Madali said the groundwater migrates very little and does not even go as far as Willow Pass Road, so the Navy does not expect the contamination to migrate.

X. OTHER TOPICS, NEXT MEETING, AND ACTION ITEMS

Mr. Anderson introduced a new member to the regulatory cleanup team, Tina Low (Water Board). He said Ms. Low is replacing Alan Friedman as the Water Board’s Concord Project Manager. Mr. Friedman is still with the Water Board but is moving on to other projects. Mr. Anderson thanked Mr. Friedman for all of his work on the project.

Regarding the next RAB meeting, Mr. Anderson said he will take the RAB’s comments about a quarterly schedule to his management and get back to the RAB about the path forward as soon as possible. He noted the next meeting is the Site 27 PP public meeting, to be held on January 18, 2012.

Below are the updates for action items from the last meeting and the new action items from this meeting.

| No. | Action Item | Target Date for Completion | Responsible Person | Completion Date (or Status) |
|------------|--|-----------------------------------|---------------------------|------------------------------------|
| 1. | RAB members will e-mail Mr. Anderson any comments they have on the draft August 3, 2011, RAB minutes. | 12/21/11 | RAB members | This action item was completed. |
| 2. | The Navy will e-mail the ConocoPhillips Oil Spill Update to Mr. Birsan. | 12/21/11 | S. Anderson | This action item was completed. |
| 3. | Mr. Anderson will take the RAB’s comments about the change in RAB schedule to his management. He will notify the group about when the next RAB meeting will be held. | 12/21/11 | S. Anderson | This action item was completed. |

ATTACHMENT A
ATTENDEES AND AFFILIATIONS
RESTORATION ADVISORY BOARD MEETING
FORMER NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD
DECEMBER 7, 2011

(1 Page)

**ATTENDEES AND AFFILIATIONS
RESTORATION ADVISORY BOARD MEETING
FORMER NAVAL WEAPONS STATION SEAL BEACH
DETACHMENT CONCORD, CALIFORNIA
DECEMBER 7, 2011**

| <u>Name</u> | <u>Affiliation</u> | <u>Telephone</u> |
|----------------------|--------------------------|------------------|
| Scott Anderson | Navy, BRAC PMO West | (619) 532-0938 |
| Bryce Bartelma | Navy, BRAC PMO West | (619) 532-0975 |
| Edi Birsan* | Concord Resident | (510) 812-8180 |
| Shamika Bowles | Cook Environmental | (925) 478-8390 |
| Joanna Canepa | Tetra Tech | (425) 877-2806 |
| Byron Clamor | Navy, BRAC PMO West | (619) 532-0933 |
| Tim Cook | Cook Environmental | (925) 478-8390 |
| Melinda Dragone | EPA | (415) 947-4184 |
| Amy Estey | Shaw Environmental | (925) 288-2091 |
| Alan Friedman | Water Board | (510) 622-2347 |
| Valerie Harris | Navy, BRAC PMO West | (619) 532-0981 |
| Tina Low | Water Board | (510) 622-xxxx |
| Kristina Madali | Navy, BRAC PMO West | (619) 532-0929 |
| Dennis Parker | U.S. Navy, BRAC PMO West | (619) 532-0954 |
| Igor Skaredoff* | Martinez Resident | (925) 229-1371 |
| Shirley Skaredoff | Martinez Resident | (925) 229-1371 |
| Tommie Jean Valmassy | Tetra Tech | (510) 302-6232 |
| Cindy Welles* | Clyde Resident | (925) 685-2698 |
| Mary Lou Williams | Concord Resident | (925) 685-1415 |
| Shon Wolf* | Clyde Resident | (925) 686-5924 |

Notes:

| | |
|------------|--|
| * | Community Restoration Advisory Board (RAB) Member |
| BRAC PMO | Base Realignment and Closure Program Management Office |
| DTSC | Department of Toxic Substances Control |
| EPA | U.S. Environmental Protection Agency |
| Tetra Tech | Tetra Tech EM Inc. |

ATTACHMENT B

AGENDA

**RESTORATION ADVISORY BOARD MEETING
FORMER NAVAL WEAPONS STATION SEAL BEACH
DETACHMENT CONCORD, CALIFORNIA**

DECEMBER 7, 2011

(2 Pages)

INLAND AREA AGENDA

FORMER NAVAL WEAPONS STATION SEAL BEACH DETACHMENT CONCORD INLAND AREA RESTORATION ADVISORY BOARD (RAB) MEETING

Wednesday, December 7, 2011
6:30 p.m. – 8:20 p.m.

Location: Clyde Clubhouse
109 Wellington Avenue
Clyde, CA 94520

-
- | | |
|-------------|---|
| 6:30 – 6:35 | Call to Order <ul style="list-style-type: none">➤ Welcome➤ Introductions/Agenda Review➤ Public Comment Period➤ Approval of the August 2011 Meeting Minutes Lead: Community Co-chair |
| 6:35 – 6:50 | Announcements <ul style="list-style-type: none">➤ Review of Action Items➤ Conoco/Phillips Pipeline Release Update➤ Proposed 2012 RAB Meeting Schedule<ul style="list-style-type: none">- January 18, 2012- April 4, 2012- July 11, 2012- October 3, 2012 Lead: Navy Co-chair |
| 6:50 – 7:05 | Committee Reports/Announcements <ul style="list-style-type: none">➤ RAB Announcements, Reports or other business (Community Co-chair)➤ RAB Open Comment Period➤ Remedial Project Managers' (RPM) Update (Navy/EPA/DTSC/RWQCB)➤ City of Concord Update |
| 7:05 – 7:15 | Site 22A Proposed Plan (PP) and Public Meeting Update Navy: Valerie Harris, Navy RPM |
| 7:15 – 7:25 | Area of Potential Interest (AOPI) Field Investigation Update Navy: Valerie Harris, Navy RPM |
| 7:25 – 7:35 | Former Inland Burn Area (FIB) and Solid Waste Management Units (SWMU) Field Investigation Updates Navy: Dennis Parker, Navy RPM |
| 7:35 – 7:45 | Biological Program Status Update Navy: Dennis Parker, Navy RPM |

7:45 – 7:55 Radiological Screening Program Update
Navy: Bryce Bartelma, Navy RPM

7:55 – 8:05 Site 27 PP/Public Meeting Update and Site 22 Endrin Removal Action Update
Navy: Byron Clamor, Navy RPM

8:05 – 8:15 Site 29 Treatability Study (TS) and Feasibility Study (FS) Update
Navy: Kristina Madali, Navy Lead RPM

8:15 – 8:20 Meeting Evaluation and Topic Suggestions of Future Meetings

8:20 Adjourn

NAVWNPSTA CONCORD RAB Meetings are held the first Wednesday of the month on a quarterly basis, unless changed.

Information regarding the Environmental Restoration program at Former Naval Weapons Station Seal Beach Detachment Concord Inland Area can be found at:

<http://www.bracpmo.navy.mil/basepage.aspx?baseid=39&state=California&name=concord>

BRAC Environmental Coordinator: Mr. Scott Anderson (619) 532-0938, scott.d.anderson@navy.mil

Community RAB Co-Chair: Ms. Mary Lou Williams, (925) 685-1415

**ATTACHMENT C
CONOCOPHILLIPS OIL SPILL UPDATE**

DECEMBER 7, 2011

(4 Pages)



ConocoPhillips Oil Spill Update

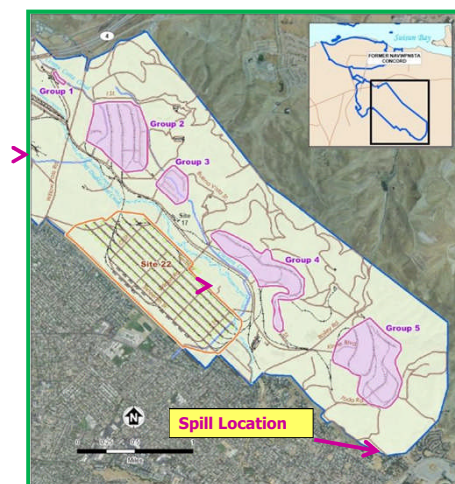
Former Naval Weapons Station Seal Beach Detachment
Concord

Restoration Advisory Board Meeting
December 7, 2011

1



Spill Location Map



2



Fuel Spill Update



- Conoco reported a possible fuel spill to the Navy on November 7, 2011.
- 16.5-inch steel line carrying light-crude oil.
- Agencies contacted and overseeing the repair/remediation work.
- As of 11/30/11 - Soil has been excavated in the area of the pipeline leak to expose the Shell Oil, ConocoPhillips and Kinder Morgan pipelines for inspection and repair of their exterior coatings.
- Air quality monitoring is being conducted by AECOM, an environmental consulting firm. AECOM Personnel onsite during soil disturbing activities, to monitor vapor concentration levels at the excavation location, adjacent to the site and checking the neighborhood.
- A recovery sump has been installed in the excavation to aid in the remediation of soils and groundwater. Oil and impacted ground-water are being recovered and transported to the ConocoPhillips Rodeo Refinery for reprocessing.
- Until the excavation is backfilled following the coating repair, a vapor barrier will be installed during periods of non-activity to minimize vapors and/or odors.
- Pot-holing along the COP Pipeline has established the horizontal extent of crude oil impacts to be ~ 200 feet down gradient from the release site.
- Monk and Associates is providing a full time biological monitor to address any endangered species issues.

3



General Spill Area



4



1st Response Pictures



5



11/30/11 Site Pictures



6



Fuel Spill Next Steps



ConocoPhillips, the Regulatory Agencies, and the Navy are working together to complete the repair and clean up activities.

After the repairs are made, ConocoPhillips will conduct additional soil and groundwater work and obtain site closure from agencies.

The Navy will be reviewing all documents.

ConocoPhillips will be installing additional cathodic protection of their pipeline in the near future.

Questions?

ATTACHMENT D

**NAVY REMEDIAL PROJECT MANAGERS' UPDATE
RESTORATION ADVISORY BOARD MEETING
FORMER NAVAL WEAPONS STATION SEAL BEACH
DETACHMENT CONCORD, CALIFORNIA**

DECEMBER 7 2011

(1 Page)



***Navy Remedial Project Manager (RPM) Update for 7 December 2011 Meeting of
Former Naval Weapons Station Seal Beach Detachment Concord***

Summary of Navy Base Realignment and Closure (BRAC)

Inland Area RPM activities since the last RAB update on

Wednesday, 5 October, 2011

Installation Restoration and Munitions Response Programs Sites

- October 10 through October 28, 2011- Navy performed removal of 711 targets in the kickout area of the Former Inland Burn Area.
- October 5, 2011 – Navy began wet season trapping activities for the California red-legged frog and California tiger salamander. Trapping activities are expected to last through March 2012.
- October 28, 2011 – Navy issued the Draft Final Proposed Plan for Site 22A to the regulatory agencies for review.
- November 2, 2011 – Navy issued a monthly trapping report to the US Fish and Wildlife Service for trapping activities performed during October.
- November 8, 2011 – Navy issued a technical memorandum regarding the rationale for ceasing groundwater monitoring at Site 13.
- November 10, 2011 – Navy issued a 60-day extension to submit the Draft Removal Action Work Plan for Site 24A. The due date was revised from November 15, 2011 to January 15, 2012.
- November 14, 2011 – Navy issued an extension request for the Draft Feasibility Study (FS) for Site 29. The due date for the Draft FS was revised from November 9, 2011 to June 30, 2012.
- November 17, 2011 – Navy issued the final Site Management Plan schedule.
- November 23, 2011 – Navy issued a 30-day extension to the current Proposed Plan schedule for Site 22A to allow time to resolve agency comments on the Draft Final Proposed Plan. The due date for the Final Proposed Plan was revised from December 15, 2011 to January 16, 2012.
- November 30, 2011 – Navy issued the Final Action Memorandum for Site 24A.
- December 7, 2011 – RPMs met for a bi-monthly RPM meeting.

Acronyms

BRAC – Base Realignment and Closure Commission

RAB – Restoration Advisory Board

RI – Remedial Investigation

RPM – Remedial Project Managers

ATTACHMENT E
IR SITE 22A AND AREAS OF POTENTIAL INTEREST

DECEMBER 7, 2011

(8 Pages)



Installation Restoration (IR) Site 22A and Areas of Potential Interest (AOPIs)

Former Naval Weapons Station Seal Beach Detachment
Concord

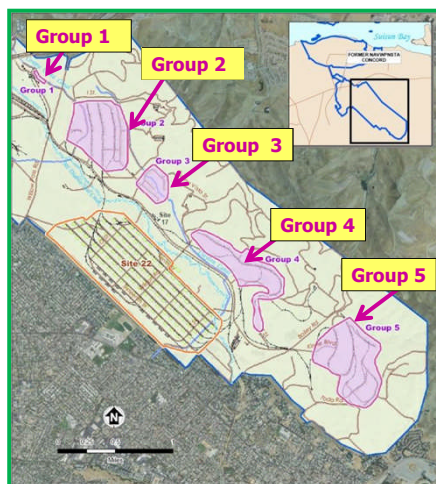
Restoration Advisory Board Meeting
December 7, 2011

Valerie Harris, Remedial Project Manager

1



Site 22A



- Five magazine groups located across the inland area
- Arsenic in surface soil is the contaminant of concern
- Arsenic concentrations at Group 1 are below background
- Completed a feasibility study for Groups 2 through 5

2



Site 22A



Residential reuse is not planned for any of the magazine groups.



3

Remedial Action Objective

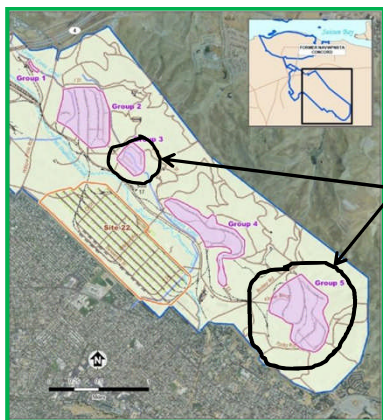
- Reduce exposure of potential future residents through inhalation, ingestion, and dermal contact, to arsenic concentrations in surface soils at Site 22A that
 - result in a cancer risk above the risk management range (10^{-6} to 10^{-4}) or
 - result in a hazard index greater than 1.



Site 22A



Draft final no action Proposed Plan issued to agencies on October 28, 2011.



No action is an appropriate remedy for Groups 1, 2 and 4.

EPA is concerned that the total hazard for a hypothetical resident is too high for Magazine Groups 3 and 5.

4



Site 22A Next Steps



Navy and EPA are working together to resolve comments on the proposed remedy for Groups 3 and 5.

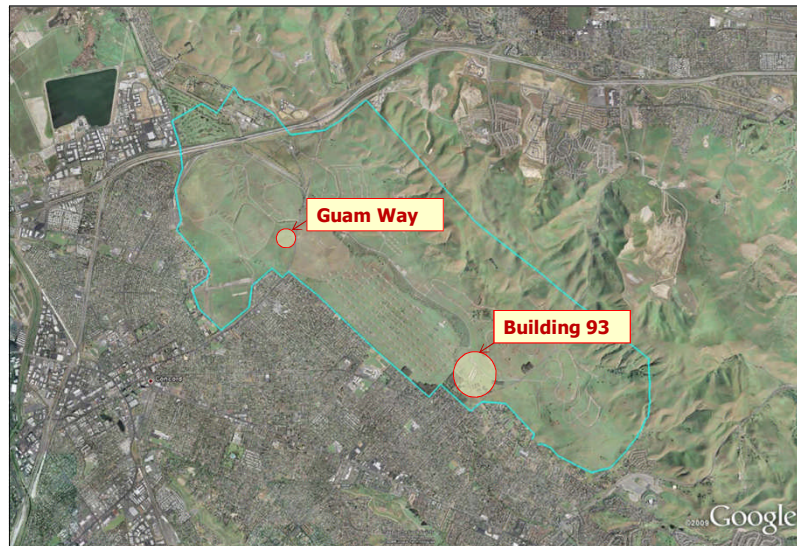
The Proposed Plan, public meeting and Record of Decision for Site 22A are delayed.

Questions?

5



Areas of Potential Interest 2011 Fieldwork Update

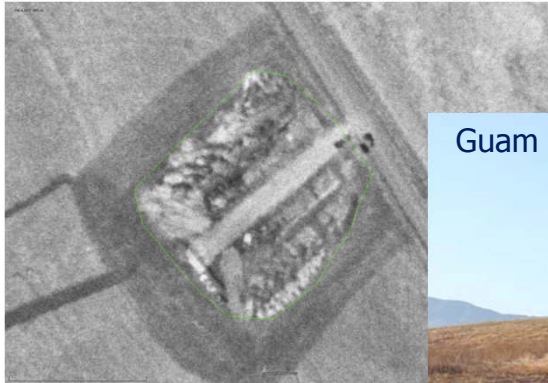




Guam Way - AOP1



Area identified based on review of 1946 aerial photograph



Guam Way (2011)- View looking south



Concrete, metal debris, cables and one crushed shell casing observed on the ground surface.



Guam Way – Fieldwork



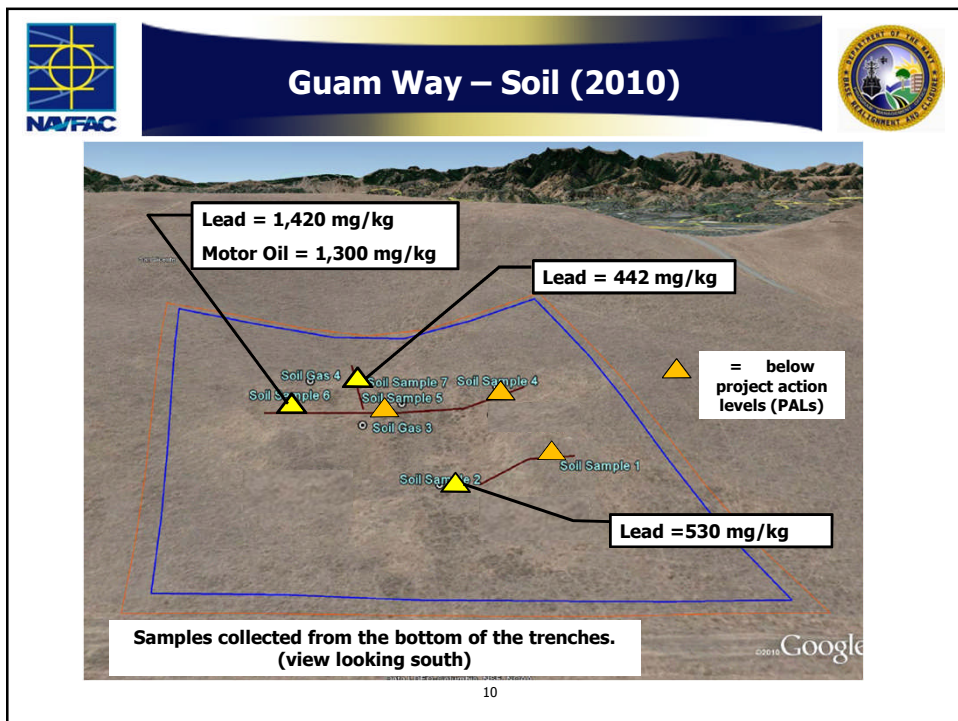
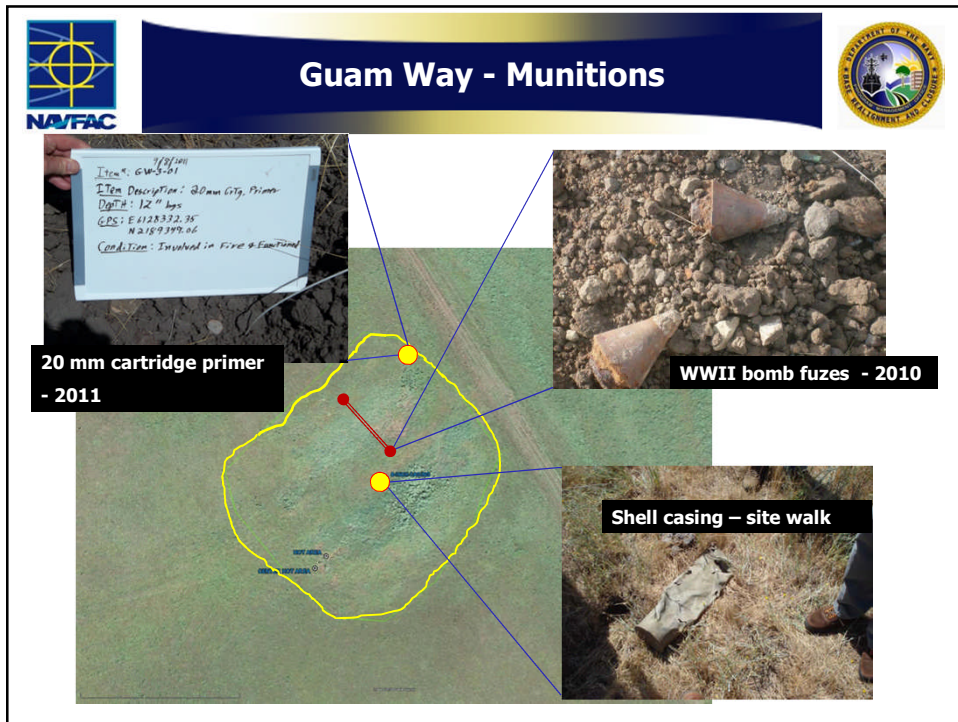
Summer 2010/2011

- 3 trenches in 2010
- 6 soil samples in 2010
- 4 soil gas samples in 2010;
- 4 soil gas samples in 2011
- 3 groundwater samples in 2011



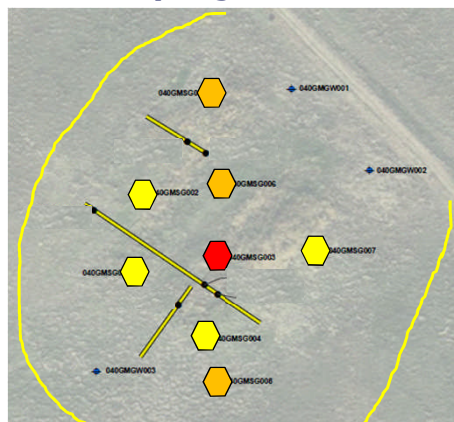
Winter 2011/2012

- biological trapping





Chemicals above PALs



- 1,3-butadiene: 4 locations
($> 6.31 \text{ mg/m}^3$)
- trichloroethene: 1 location
($> 540 \text{ mg/m}^3$)
- tetrachloroethene (PCE):
1 location ($> 180 \text{ mg/m}^3$)
- below project action
levels (PALs)

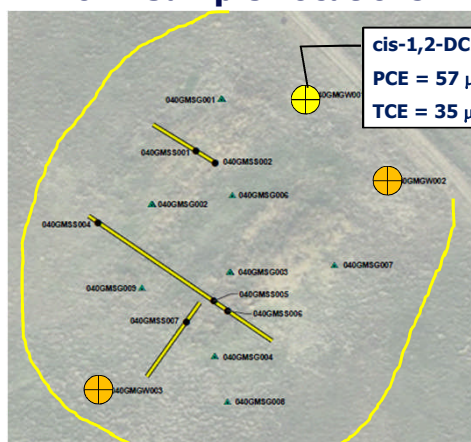
11



Guam Way - Groundwater



2011 Sample Locations



- $\leq 280 \mu\text{g/L}$ ($> 6 \mu\text{g/L}$)
 - $\text{PCE} (> 5 \mu\text{g/L})$
 - $\text{PCE} (> 5 \mu\text{g/L})$
 - 3 groundwater samples collected
 - PCE, TCE, and cis-1,2-dichloroethene above PALs at one location
 - below project action levels (PALs)

12



Building 93 AOPI



- PA/SI to evaluate possible releases from septic tank leach field.
- Groundwater sampling to investigate volatile organic compounds, semivolatile organic compounds and explosives.
- Sampling began in 2010.
- Sampling in unpaved areas was completed in 2011.

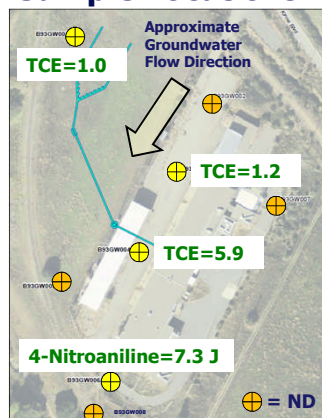
13



Building 93 Results



2010/2011 Groundwater Sample Locations



- 2010 results:
 - TCE at 5.9 $\mu\text{g/L}$ (above the MCL of 5 $\mu\text{g/L}$)
 - 4-nitroaniline at 7.3 $\mu\text{g/L}$ (above project action level)
- 2011
 - Added new downgradient location for 4-nitroaniline
 - All results below project action levels

14



AOPI SI Reports



- SI Report #1 – Guam Way, Building 93, IA-100 Storage Areas, Unocal Pipeline Site, Railroad Excavation C
 - Draft : April 2012
 - Draft Final : September 2012
 - Final : October 2012
- SI Report #2 – Building 81, Building IA-27, IA-25 Outfeature, Bermed Area, Railroad Excavation A & B
 - Draft : April 2013
 - Draft Final : September 2013
 - Final : October 2013

15



AOPIs



Questions ?



16

ATTACHMENT F
FORMER INLAND BURN AREA SOLID WASTE MANAGEMENT UNITS 2, 5, 7, 18
FIELD INVESTIGATION UPDATES

DECEMBER 7, 2011
(6 pages)



Former Naval Weapons Station
Seal Beach Detachment Concord

**Former Inland Burn Area
Solid Waste Management Units 2, 5, 7, 18
Field Investigation Updates**

Restoration Advisory Board Meeting
Dennis Parker
BRAC Project Manager
December 7, 2011

1



Former Inland Burn Area (FIB)

- 50 acres - Northwest portion of former Concord NWS
- Was used for the destruction and disposal of ordnance and explosive materials from late 1940s through 1970s
- An estimated 500,000 pounds were destroyed between 1967 and 1969
- Previous investigations have not discovered substantial quantities of chemical contaminants in soil and groundwater
- Geophysical surveys indicate there are substantial quantities of buried munitions-related objects at FIB in 'Heavy Anomaly Areas.'
- Trenching performed in 2010 found munitions related debris down to a depth a 12 feet below ground surface
- Objects in the 'kickout' area of FIB are much less dense and less than 2 feet below ground surface

2



FIB 2011 Field Work

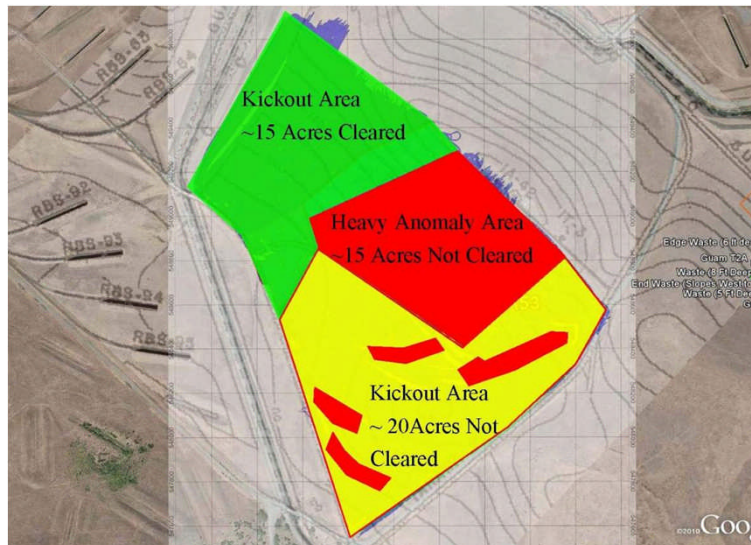


- Performed Supplemental RI field work
 - Planned to perform extensive excavations in Heavy Anomaly Areas to determine nature and extent of munitions-related objects
 - On 2nd day of excavations (Sept 13) a 5-inch rocket motor was found
 - Presented explosive safety hazard greater than accounted for in our safety protocols
 - Shut down operations
 - We were able to continue working in kickout areas after modifications to safety protocols
 - Cleared approximately 15 acres of kickout area of munitions in October using manual removal techniques
 - No significant munitions finds

3



FIB Areas



4



5-inch Rocket Motor



5



FIB – Path Forward



- Issue Remedial Investigation Report
- Perform Removal Action to excavate and remove all munitions remaining in the heavy anomaly areas
 - Action Memorandum to document need for removal action
 - Develop work plan and associated documents
 - Begin field work in late Summer 2012
 - Funding profiles are driving for this path forward
- Complete removal of munitions related materials in Kickout Areas
 - Perform in early Summer 2012
 - Need to determine how to classify this work.

6



SWMUs 2, 5, 7, 18



- Solid Waste Management Units (SWMUs)
- SWMU 2 – Fire Station
- SWMU 5 – Locomotive Repair Shop and Railcar Steam Cleaning (Waste Oil Tank)
- SWMU 7 – Metals/Machine Shop, Auto Repair Shop
- SWMU 18 – Locomotive Steam Cleaning
- Tetrachloroethylene (PCE) and trichloroethylene (TCE) in groundwater are primary contaminants of Concern (Waste Oil Tank at SWMU 5)
- Record of Decision finalized in July 2010
- Selected Remedy – Air sparging and soil vapor extraction system

7



SMWUs Selected Remedy

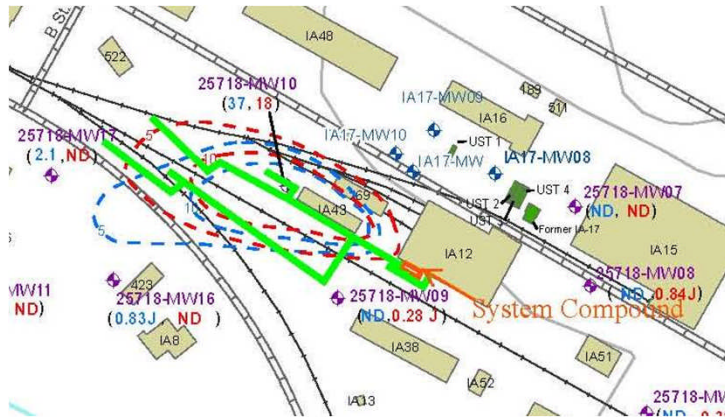


- Completed design of Air Sparging/Soil Vapor Extraction system in February
- Began construction of Air Sparging/Soil Vapor Extraction system in September
- We are not installing downgradient portion of the system because PCE and TCE concentrations are below clean up goals
- Construction should be completed in December
- Will begin operation of Air Sparging/Soil Vapor Extraction system in January
- Anticipate operating the system for 2 – 3 years

8



SWMUs System Map



9



SWMUs Trench and Well Head



10



SWMU Treatment System



11



Questions



Questions?

12

ATTACHMENT F
BIOLOGICAL PROGRAM STATUS UPDATE
DECEMBER 7, 2011
(3 Pages)



Former Naval Weapons Station Seal Beach Detachment Concord

Biological Activities Update 2012 Environmental Investigations

Restoration Advisory Board Meeting

*Dennis Parker
BRAC Project Manager*

December 7, 2011

1



Purpose

- Mitigate potential impacts from Environmental Investigations and Clean up Activities to Federal and/or State Listed Species
 - Species
 - California Tiger Salamander (CTS)
 - California Red Legged Frog (CRLF)
 - Various Bird Species
 - Activities
 - Excavations to Remove Chemical Contaminants and/or Munitions
 - Soil Borings
 - Monitoring Well Installation

2



2011-12 Trapping



- Added 4 new sites to trapping plan
 - Sites where remediation or additional investigation will be needed
 - Installed trapping fences at new sites with automatic equipment
- Began trapping in early October
 - 8 CTS have been captured and relocated outside fences
 - 7 CTS at Eagle's Nest
 - 1 CTS at Site 24A (Former Pistol Range)
- Will meet with USFWS in January
 - Discuss how to get work performed in Summer 2012
 - Look for potential areas for habitat enhancement

5



Questions?



6

**ATTACHMENT G
RADIOLOGICAL PROGRAM SCREENING UPDATE**

DECEMBER 7, 2011

(6 Pages)



Base-Wide Radiological Survey Update



Navy: Bryce Bartelma, Navy Project Manager

Former Naval Weapons Station Seal Beach Detachment Concord Inland Area
December 7, 2011

RAB Meeting 1



Introduction & Background



As part of the Navy's Environmental Restoration Program at Concord, some structures within the Inland Area need to be surveyed for radioactive materials.

- Final Historical Radiological Assessment (HRA) released March 2010. The HRA designated the following structures as impacted:
 - seven (7) buildings
 - forty-one (41) bunkers
- Although the HRA determined the potential for radionuclide contamination of all these structures as "unlikely", radiological surveys were recommended, so that they may achieve unrestricted release for the purpose of property transfer

RAB Meeting 2



Radiological Survey Design - Bunkers



Designate Bunkers where radioactive materials were stored as Multi-Agency Radiation Survey & Site Investigation Manual (MARSSIM) Class 2 survey units:

- 100% surface scan of floors and 25% surface scan of the walls to height of 6 feet
- 18 static measurements and wipes per survey unit (plus 1 co-located duplicate location)
- **None of the bunkers had results above guidance limits and the Navy is currently preparing Final Status Survey reports for unrestricted free release**

RAB Meeting 3



Radiological Survey Design - Buildings



Designate buildings where sealed radioactive materials were actively used or maintenance was performed as MARSSIM Class 1 survey units:

- 100% surface scan of floors and walls to height of 6 feet (most likely surfaces to become contaminated from use of radioactive material)
- 18 static measurements and wipes per survey unit (plus 1 co-located duplicate location)—also tritium wipes at Buildings 81 and 87
- Analysis of data while in the field and biased measurements of elevated scan activity, visual indications (e.g., stains), floor drains, fume hoods
- **Fieldwork ongoing but results look positive**

RAB Meeting 4



Techniques



3-Dimensional Indoor Scanning System (3-DISS) scanning of wall



RAB Meeting 5



Techniques



3-DISS scanning of Floor



RAB Meeting 6



Techniques



Single detector for hand scanning and static measurements of difficult to access areas



RAB Meeting 7



Potential Detection - Building IA-21



- Surface scan detection at the guideline limit in a basement office of Building IA-21.
- Implement additional precautions but location along crack and broken concrete in basement slab, which is likely radon gas.
- Collecting additional samples to confirm result
- Building still a candidate for unrestricted free release



RAB Meeting 8



Potential Detection - Building IA-21



RAB Meeting 9



Schedule



Completed to Date

- Scanning and wipe samples in all structures except a few rooms of various buildings (where asbestos removal was being completed)
- Preliminary results indicate no radiological contamination above criteria
- "Potential Detection" still being characterized but likely non-issue

Path Forward

- Wrap up building fieldwork in December 2011
- Preparation of Final Status Survey Report (or Characterization Report, if there is a detection)
- Project completion in 2012

RAB Meeting 10



Questions?



Point of Contact:

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BRAC Environmental
Coordinator
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scott.d.anderson@navy.mil

**ATTACHMENT H
SITE 27**

DECEMBER 7, 2011

(4 Pages)



Site 27



- History
 - Occupies 0.41 acre and includes Buildings IA-20 and IA-36
 - IA-20: chemical and a materials testing laboratory
 - IA-36: boiler house
 - Time Critical Removal Action (TCRA) conducted from 10/14/08 – 08/13/10. Chemicals of concern were:
 - 216 milligrams per kilogram (mg/kg) for lead
 - 0.88 mg/kg for mercury
 - 0.06 mg/kg for Aroclor-1248
 - 0.37 mg/kg for Aroclor-1254
 - Draft Proposed Plan (PP) currently in agency review.
 - PP is recommending No Further Action (NFA) for the site.

1



Site 27 – 10/13/11





Site 27 – Schedule



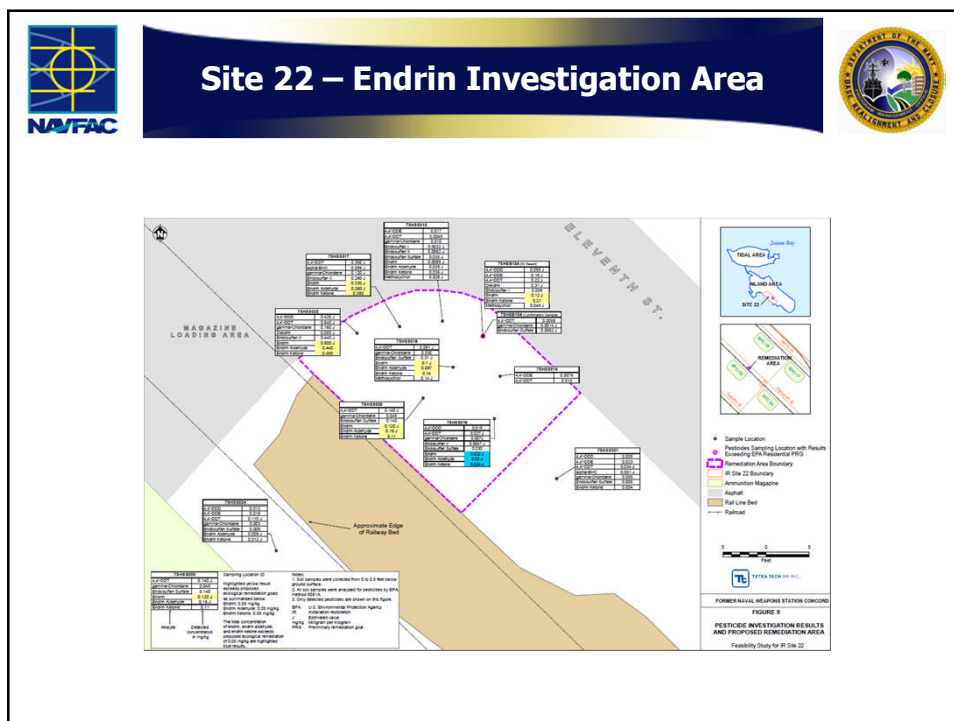
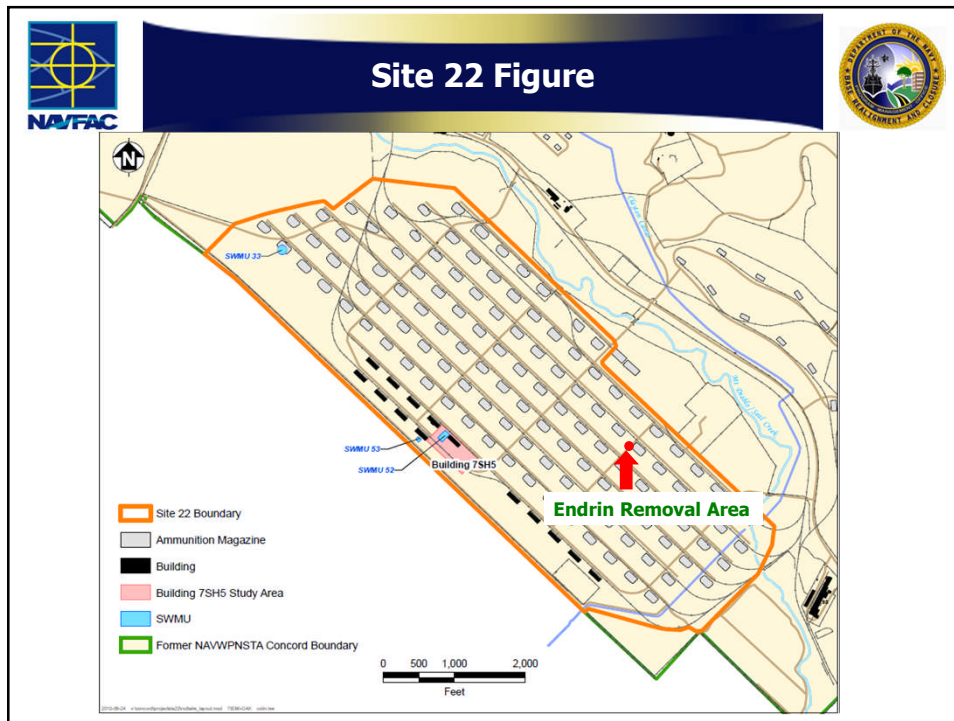
- Proposed Plan (PP)
 - Final PP: January 4, 2012
 - 30-day public comment period (01/04/12 – 02/03/12)
 - Public Meeting: Wednesday, January 18, 2012
- Record of Decision (ROD)
 - Draft ROD: April 23, 2012
 - 45-day review period (accelerated schedule)
 - The ROD will include a Responsiveness Summary which documents public comments on the Proposed Plan
 - Final ROD: September 5, 2012



Site 22



- Background
 - Final Site 22 Proposed Plan issued in April 2010
 - Arsenic is the main contaminant of concern, but a small area near Magazine 6PC-33 contains endrin above the ecological risk threshold.
 - Navy and EPA agreed to delay the Site 22 ROD, but Navy will address the endrin area through a non-time critical removal action (NTCRA).
 - In anticipation of conducting a removal action on this portion of the site, the Navy began biological trapping in October 2011.





Site 22 – Photo of Endrin Removal Area



7



Site 22 – Endrin Path Forward



- Navy is in the process of scoping a NTCRA, which will include:
 - Action Memorandum
 - Work Plans
 - Field work (Approximately Summer 2012)
 - Removal Action Completion Summary Report
- Will continue to conduct biological trapping activities as scheduled

**ATTACHMENT I
IR SITE 29**

DECEMBER 7, 2011

(4 Pages)



Installation Restoration Program Site 29



December 7, 2011
Restoration Advisory Meeting



SVE System with Solar Power





SVE System with Solar



3



Entrance to Site 29 and Biological Fence





Electric Fence



5



Biological Fence with Trap



6



SVE and Biological Fence



7